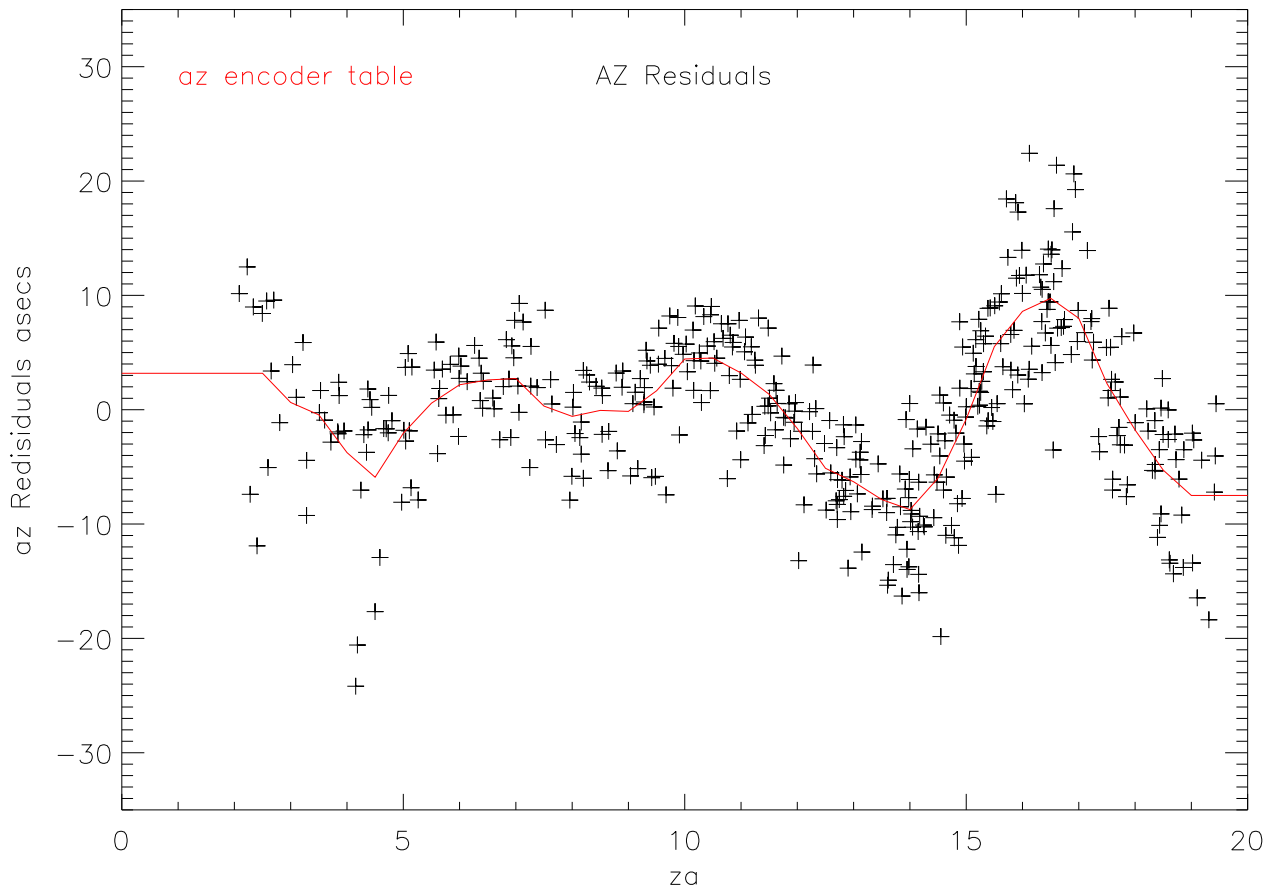
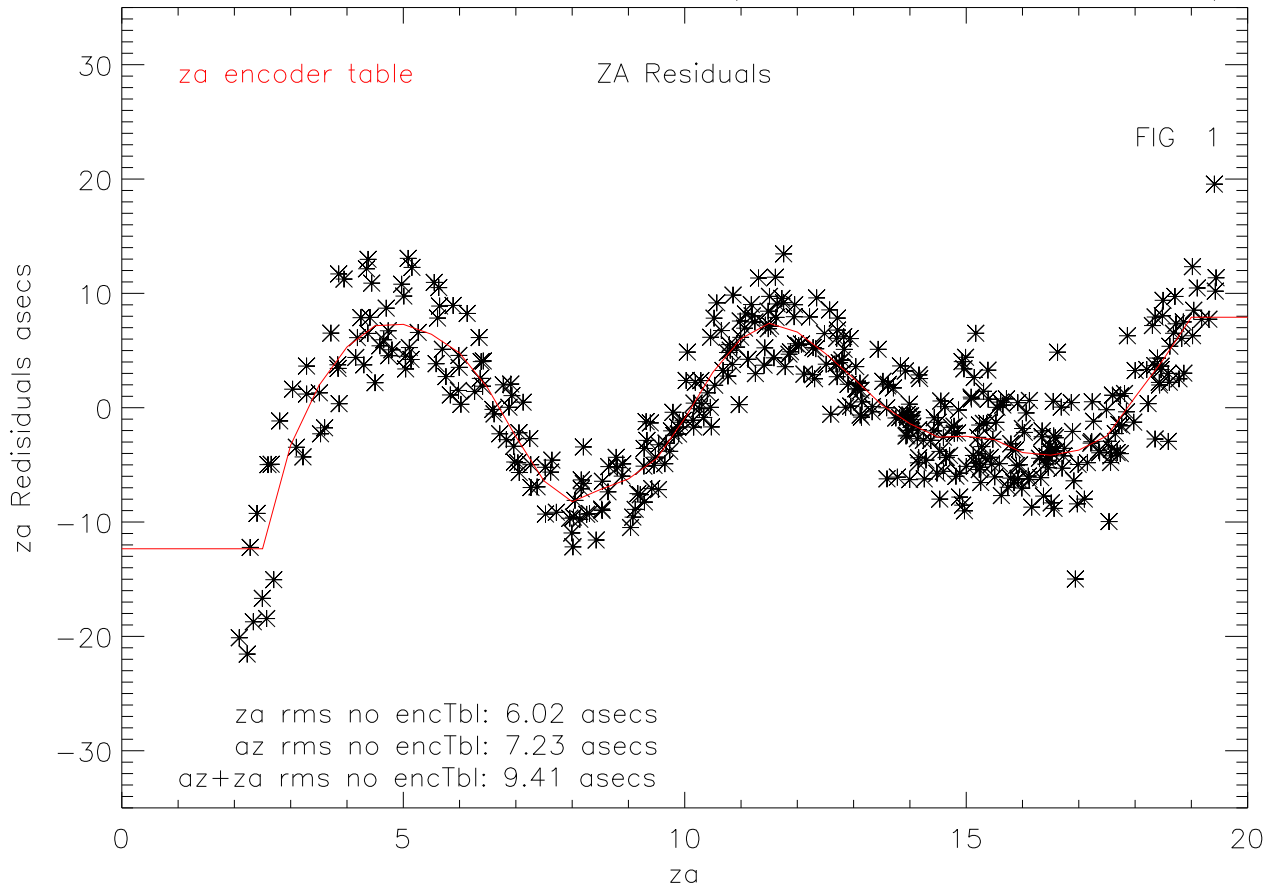
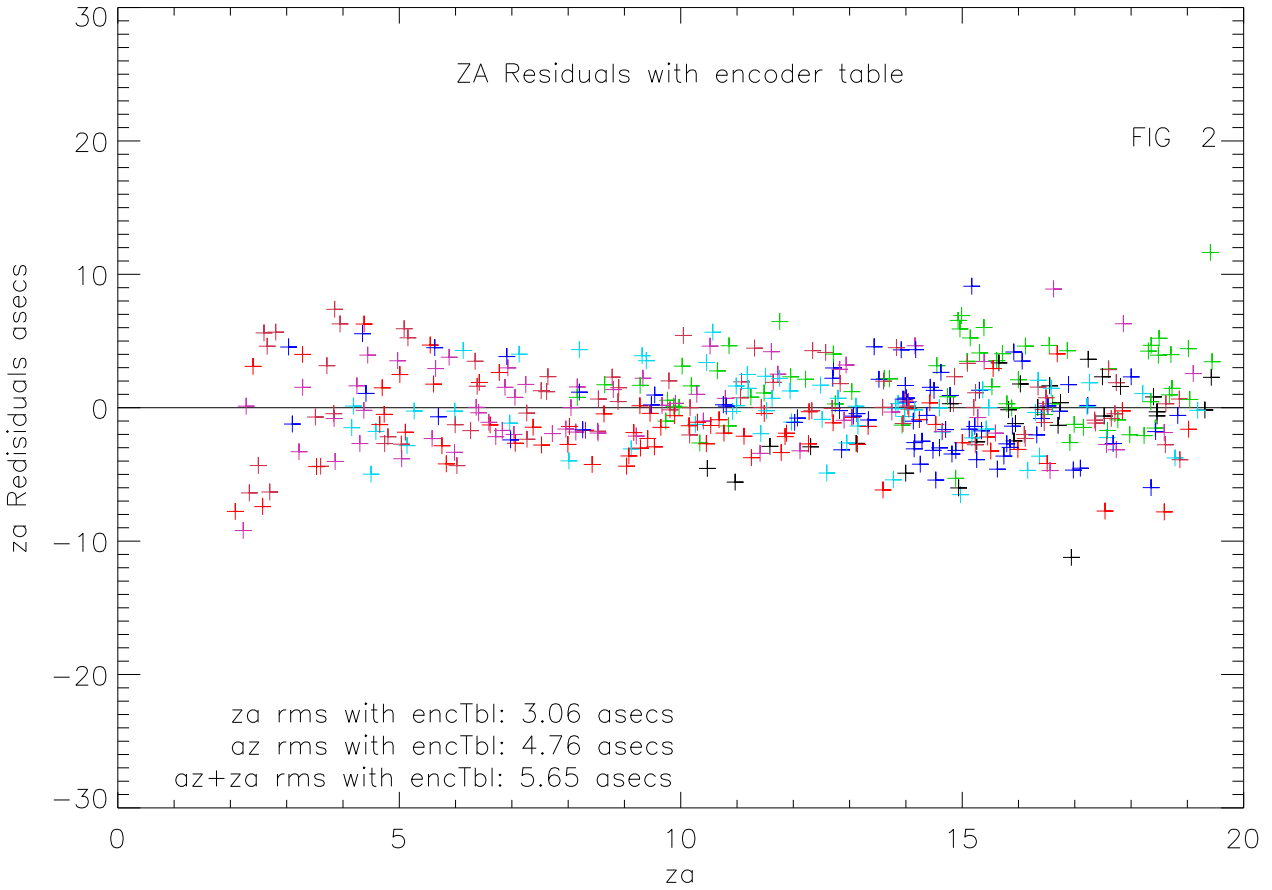


model 19 residuals za,az vs za. (encoder table not included)

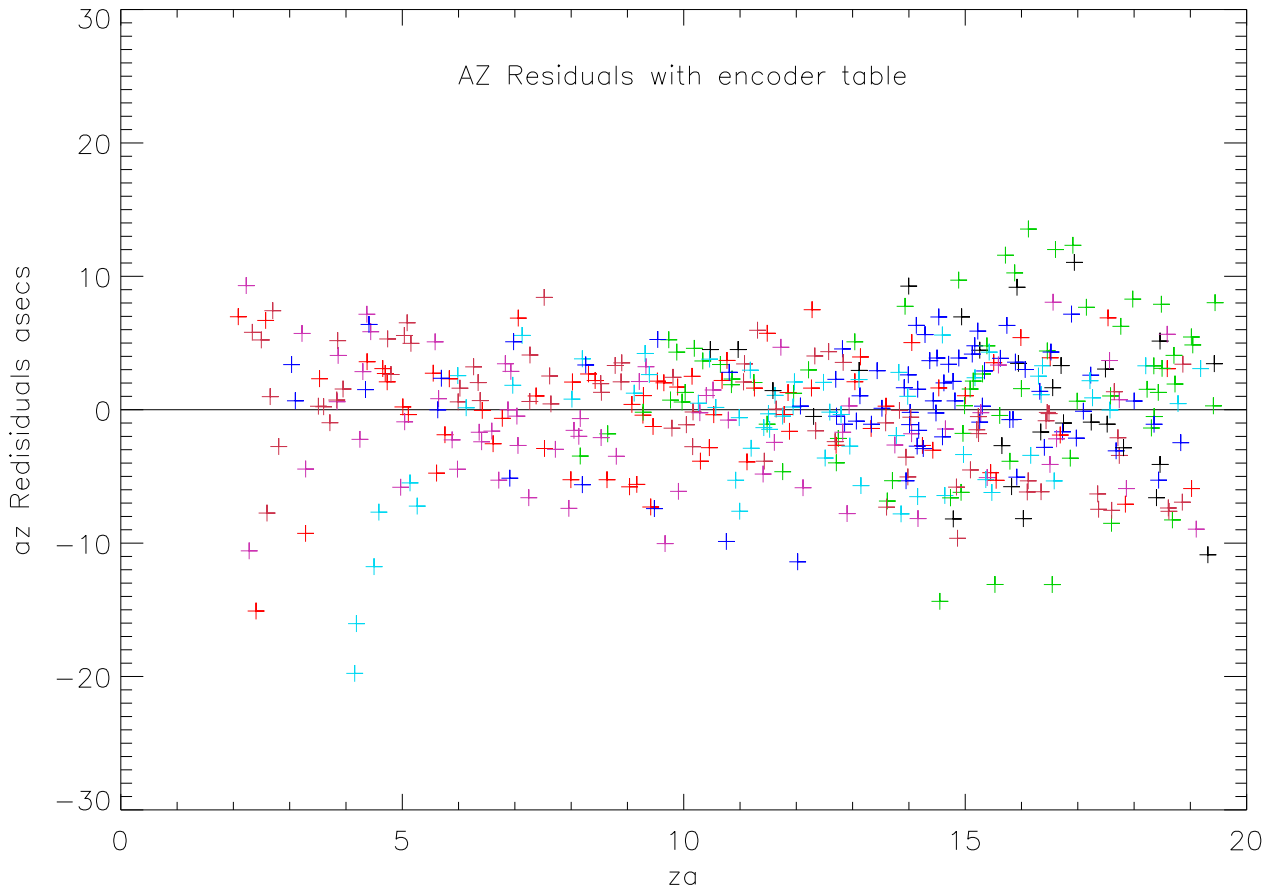


- B2128+048
- B2338+132
- B0116+082
- B0320+053
- B0618+145
- B0831+171
- B2337+220
- B2209+080
- B2325+269
- B0134+329
- B2314+038
- B0316+162
- B0518+165
- B0824+294
- B0858+292
- B2251+158
- B0003-003
- B0116+319
- B0221+276
- B0600+219
- J1021+219
- J1041+027
- J0242+110
- J0403+260
- J0842+185
- J1042+120

model 19 ZA residuals vs za. with encoder table

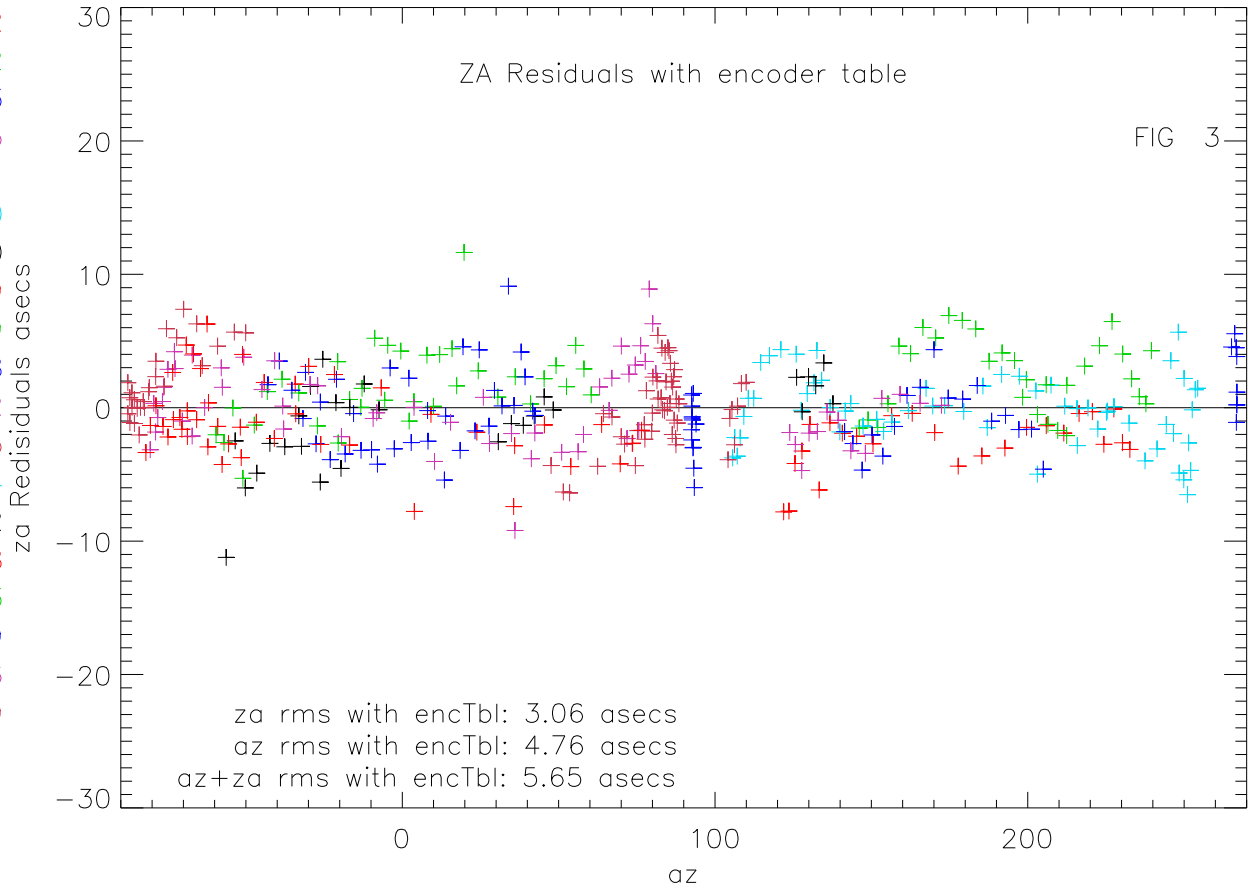


model 19 AZ residuals vs za. with encoder table

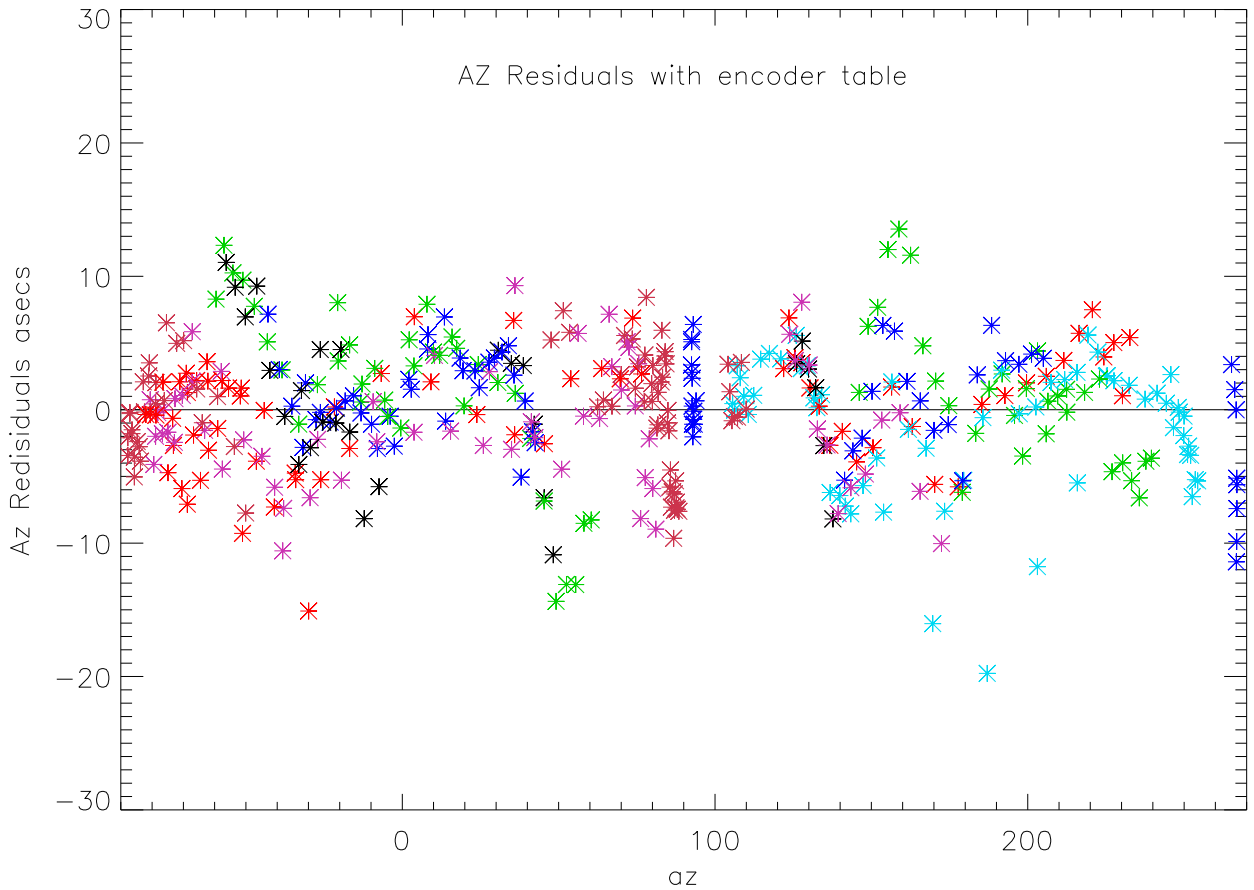


- B2128+048
- B2338+132
- B0116+082
- B0320+053
- B0618+145
- B0831+171
- B2337+220
- B2209+080
- B2325+269
- B0134+329
- B2314+038
- B0316+162
- B0518+165
- B0824+294
- B0858+292
- B2251+158
- B0003-003
- B0116+319
- B0221+276
- B0600+219
- J1021+219
- J1041+027
- J0242+110
- J0403+260
- J0842+185
- J1042+120

model 19 ZA residuals vs az. with encoder table

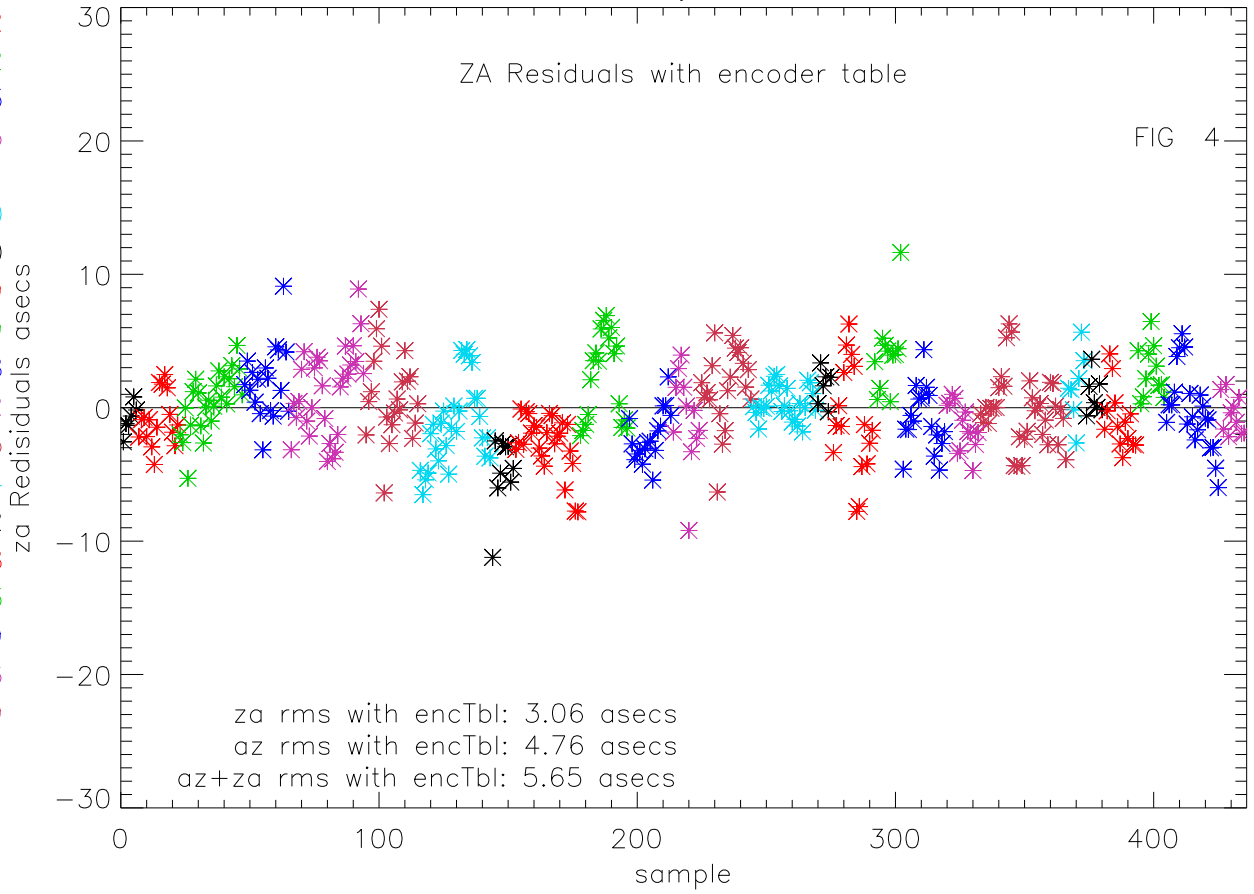


model 19 AZ residuals vs az. with encoder table

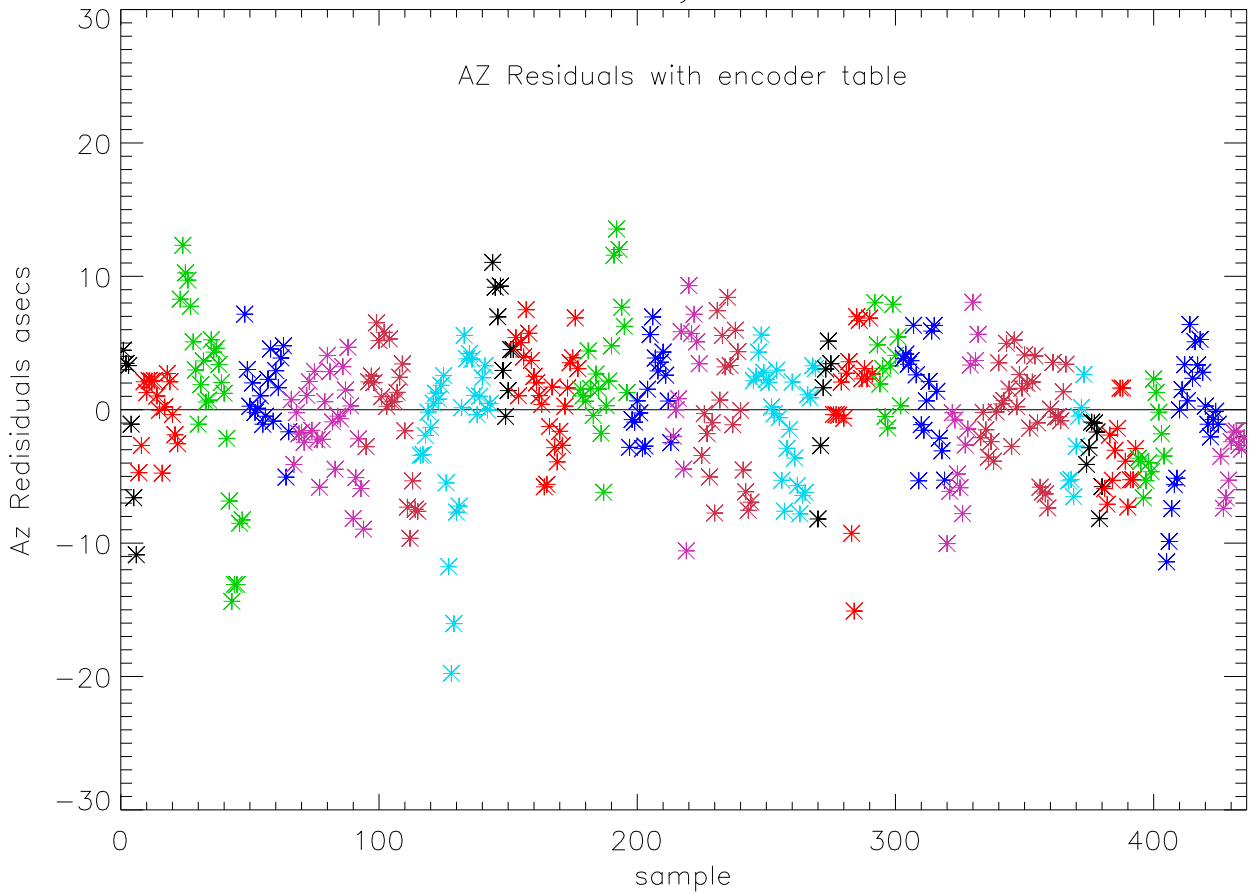


- B2128+048
- B2338+132
- B0116+082
- B0320+053
- B0618+145
- B0831+171
- B2337+220
- B2209+080
- B2325+269
- B0134+329
- B2314+038
- B0316+162
- B0518+165
- B0824+294
- B0858+292
- B2251+158
- B0003-003
- B0116+319
- B0221+276
- B0600+219
- J1021+219
- J1041+027
- J0242+110
- J0403+260
- J0842+185
- J1042+120

model 19 ZA residuals by src. with encoder table

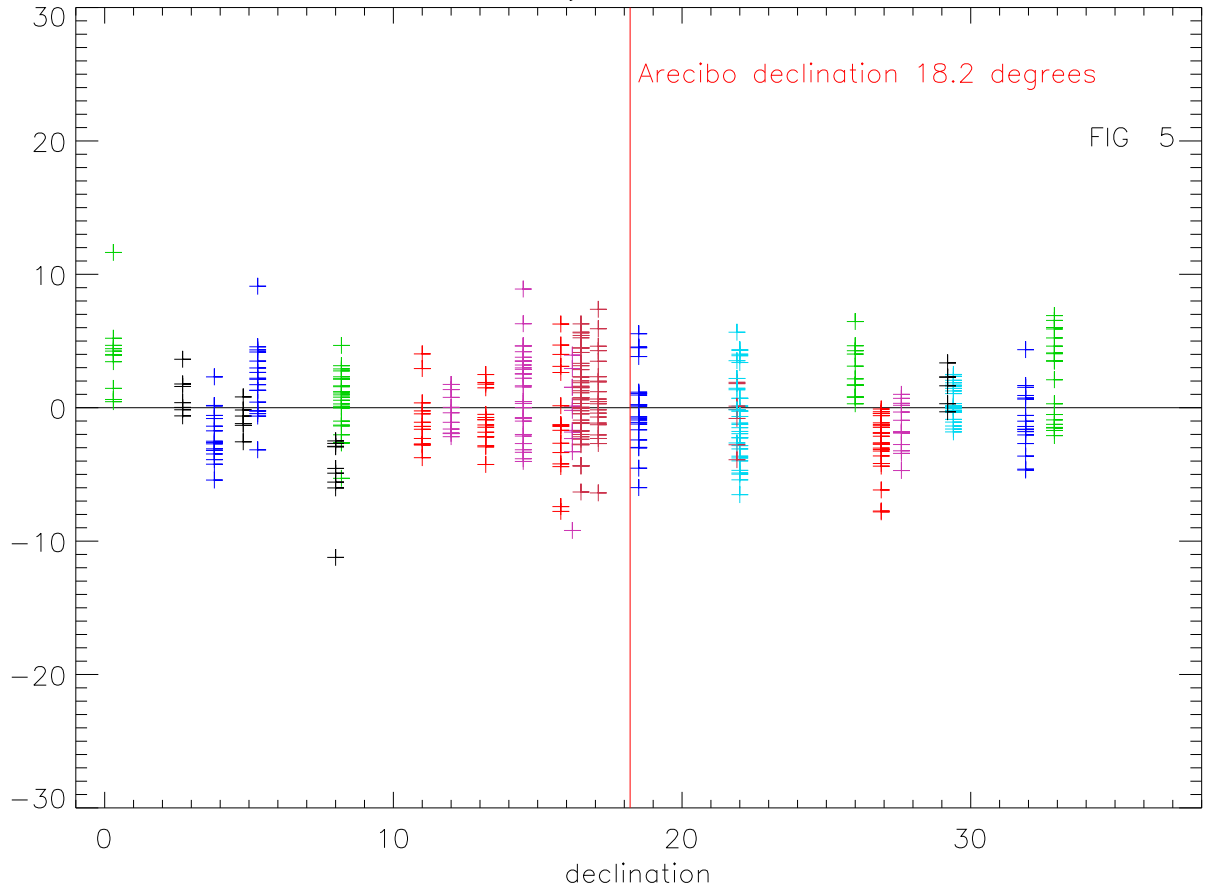


model 19 AZ residuals by src. with encoder table

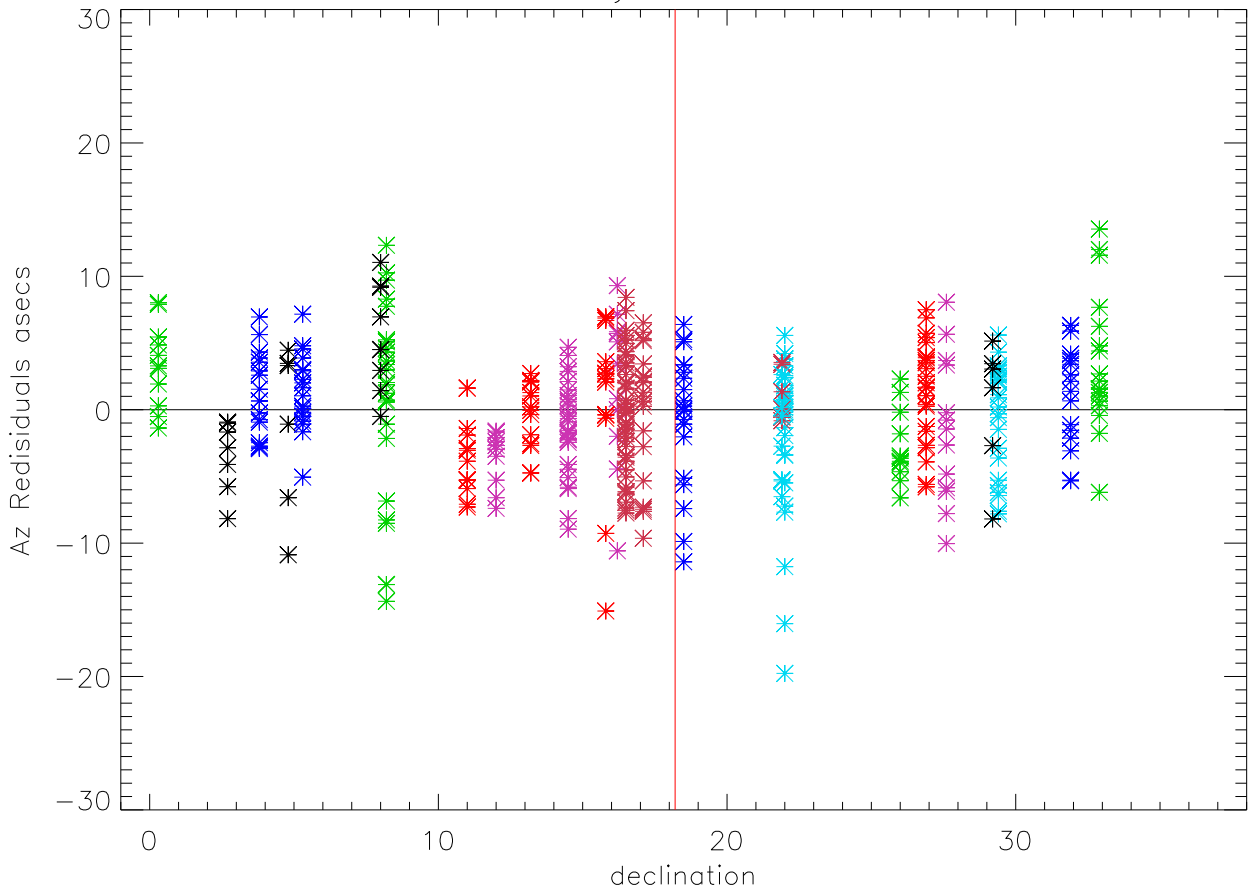


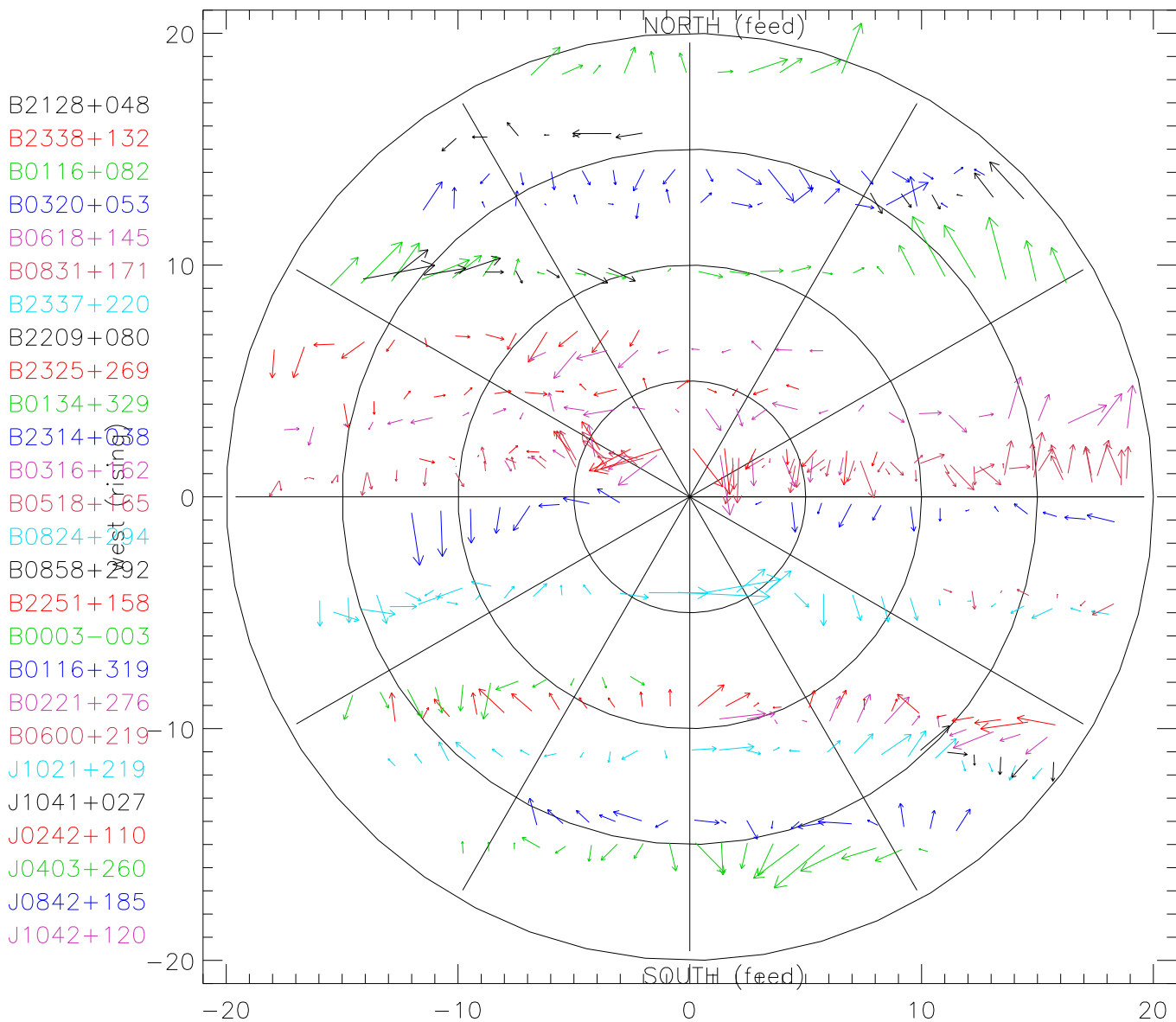
- B2128+048
- B2338+132
- B0116+082
- B0320+053
- B0618+145
- B0831+171
- B2337+220
- B2209+080
- B2325+269
- B0134+329
- B2314+038
- B0316+162
- B0518+165
- B0824+294
- B0858+292
- B2251+158
- B0003-003
- B0116+319
- B0221+276
- B0600+219
- J1021+219
- J1041+027
- J0242+110
- J0403+260
- J0842+185
- J1042+120

model 19 ZA residuals by declination. with encoder table



model 19 AZ residuals by declination. with encoder table





model 19 residuals errors [asecs] with encoder table vs az,za

1 div= 5.00Asecs

errors each 5.0deg

za	max	avg	rms
all	19.8	4.8	2.9
5	19.8	6.9	4.2
10	10.0	4.0	2.0
15	14.7	4.3	2.5
20	15.7	5.4	3.1

az

-18.01

1.76

97.88

-765.89

-1044.25

-23.56

-8.54

40.45

130.99

13.11

-0.31

-3.17

1.02

za

-93.00

-101.01

4.51

296.45

360.98

-11.07

-5.51

-4.89

6.83

2.41

3.65

-0.30

-0.16

model coefficients

constant

cos(az)

sin(az)

sin(za)

sin(za)**2

cos(3az)

sin(3az)

sin(za-balance)*cos(3az)

sin(za-balance)*sin(3az)

cos(2az)

sin(2az)

cos(6az)

sin(6az)

npts	chisqaz	chisqza	rmsAz	rmsZa	rmsTot
435	22670.8	15718.6	7.23	6.02	9.41
			4.76	3.06	5.65

model

model + encTable